



Complete Guide to Fiber Optic Cable Systems Installation

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This book offers comprehensive, unbiased, state-of-the-art information and procedures for installing fiber optic cable systems. It covers, in detail, all of the procedures required for installation, testing, commissioning and troubleshooting of these systems. Each chapter focuses on a specific aspect of the process including cable installation, cable end preparation, connector installation, splicing, testing and troubleshooting and contains review questions.

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Editorial Review

Review

PREFACE. INTRODUCTION. FORWARD. THE BASICS OF FIBER OPTIC SYSTEMS. Chapter Objectives. Introduction. Fiber Optic Transmission Systems: Components and Functions. The Basics of Optical Fibers. Basic Cable Facts. Basic Connection Facts. Basic Transmitter and Receiver Facts. ADVANTAGES AND TYPES OF FIBER OPTIC SYSTEMS. Chapter Objectives. Introduction. Why Use Fiber Optics? Three Potential Disadvantages. How Fiber Optics is Used. Standard Products. Review Questions. HOW TO INSTALL CABLE AND PREPARE ENDS. Chapter Objectives. Introduction. 24 Guidelines for Successful Cable Installation and End Preparation. Hands-On Activities: Learn When to Handle Fiber Carefully. End Preparation Procedure for Indoor Cable Designs. End Preparation for Outdoor Cable Designs. Review Questions. CONNECTOR INSTALLATION: 4 METHODS AND 2 STYLES. Chapter Objectives. Introduction. Safety Precautions. Method #1: Epoxy, Crimp and Polish Installation of ST-Compatible Connectors. Method #2: Preloaded and Preheated Installation of ST-Compatible Connectors. Method #3: Epoxyless, Crimp/Crimp/Polish Installation of ST-Compatible Connectors. Method #4: Anaerobic Adhesive Installation of SC Connectors. 23 Alternate Steps. How To Recognize Low Loss & High Loss Connectors Through Microscopic Inspection. Singlemode Polishing. Review Questions. HOW TO MAKE LOSS MEASUREMENTS. Chapter Objectives. Introduction. The Insertion Loss Measurement Procedure. How To Make and Interpret OTDR Measurements. The Reflectance Measurement Procedure. Review Questions. HOW TO INSTALL SPLICES PROPERLY. Chapter Objectives. Introduction. Fusion Splicing. Mechanical Splicing. Installing Splices In Trays and Enclosures. Review Questions. HOW TO CERTIFY AND TROUBLESHOOT FIBER SYSTEMS. Chapter Objectives. Introduction. Seven Questions to Answer. How to Answer the Seven Questions. Identify Common Problems in 11 Cable Systems. Review Questions. Appendices.

From the Back Cover

Offering comprehensive, state-of-the-art information about fiber optic cable systems, Pearson covers all of the procedures required for installation, testing, commissioning and troubleshooting of these systems. Other key topics include cable and preparation, connector installation and splicing.

About the Author

Mr. Pearson has extensive experience in all aspects of the fiber optic communication industry. He currently is President of Pearson Technologies, Director of the Fiber Optic Association and an Editorial Advisor to Fiberoptic Product News. He is certified as a professional consultant by the Academy of Professional Consultant and Advisors.

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